BRUHATH BANGALORE MAHANAGARA PALIKE

DETAILED ESTIMATE FOR PROVIDING UDG LINES IN WARD NO. 06

Est. Cost 5000000.00

Sl. No.	Description	Dimensions				Qty.	Rate	Amount
		No.	L.	B.	D			
1	2	3	4	5	6	7	8	9
1	KSRRB 300-1 : Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 metres and an average lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH /Chapter 3 (Page No.142, Item No. 19.1)							
	For sanitary line in Byraveshwaranagar	1	210.00	0.75	1.20	189.00		
	For sanitary line in Byraveshwaranagar	1	50.00	0.75	1.20	45.00		
	for Man holes	9	3.142/4 x 2.50 X 2.5 X 2.00			88.38		
	For RCC Drain @Ambedkar Layout 1st Main Nagavara	1	91.00	1.00	1.00	91.00		
		1	64.50	1.00	1.00	64.50		
		1	17.00	1.00	1.00	17.00		
		2	91.00	0.25	0.20	9.10		
	Cross road RCC drain	2	39.00	1.00	1.00	78.00		
						581.98	86.92 Per Cum	50586.00

CSR of 2016-17

Basic Rate	82.00
Add A.W. 6%	4.92
TOTAL	**86.92**

2	KSRRB 300-1 : Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 metres and an average lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH /Chapter 3 (Page No.142, Item No. 19.1)							
	Desilting of drain at Munivenkatappa layout	2	60.00	0.45	0.45	24.30		
		2	65.00	0.45	0.45	26.33		

Sl. No.	Description	Dimensions				Qty.	Rate	Amount
		No.	L.	B.	D			
		1	23.00	0.45	0.45	4.66		
		2	120.00	0.60	0.45	64.80		
	Desilting at Byraveshwara nagara	2	70.00	0.45	0.70	44.10		
		2	90.00	0.45	0.70	56.70		
	Byraveshwaranagar	2	100.00	1.00	0.75	150.00		
	Nagavara Main road	1	100.00	0.90	1.20	108.00		
	For RCC Drain @Ambedkar Layout 2nd Main Nagavara	2	140.00	0.60	0.70	117.60		
		1	150.00	0.60	0.70	63.00		
						659.48	86.92	57322.00
							Per Cmtr	

CSR of 2016-17	
Basic Rate	82.00
Add A.W. 6%	4.92
TOTAL	**86.92**

3	KSRRB M200-15.2 : Dismantling of existing structures like culverts, bridges retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work including T & P and scaffolding wherever necessary sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 metres complete as per specification.iii) Dismantling Stone Masonry. B.Rubble Stone masonry in cement mortar (Page No.138, Item No. 18.27)							
	At Ambedkar Layout 1st Main	2	22.00	0.45	1.00	19.80		
						19.80	258.64	5121.00
							Per Cmtr	

CSR of 2016-17	
Basic Rate	244.00
Add A.W. 6%	14.64
TOTAL	**258.64**

Sl. No.	Description	Dimensions				Qty.	Rate	Amount
		No.	L.	B.	D			
4	KSRRB M200-24 : Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in colume and stock piling at designated locations and disposal of dismantled materials upto a lead of 1000 meters stacking serviceable and unserviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No.202 (Page No.138, Item No. 18.47)							
		1	64.50	5.70	0.25	91.91		
		1	30.00	5.90	0.25	44.25		
						136.16	827.86	112723.00
							Per Cmtr	
	CSR of 2016-17							
	Basic Rate		781.00					
	Add A.W. 6%		46.86					
	TOTAL		**827.86**					
5	KSRB 12-1.6 : Providing and laying in position to required level or slopem 300mm internal diameter salt glazed stoneware pipes grade A and jointing with stiff mixture of cement mortar in proportion of 1:1, tsting of pipes and joints, including cost of materials, labour charges complete as per specifications. Specification No.KBS 12.2.5 / 12.7 (Page No.70 , Item No.11.6)							
	for sanitary line	1	210.00			210.00		
						210.00	661.44	138902.00
							Per Rmt	
	CSR of 2016-17							
	Basic Rate		624.00					
	Add A.W. 6%		37.44					
	TOTAL		**661.44**					
6	KSRB 12-1.5 : Providing and laying in position to required level or slopem 250mm internal diameter salt glazed stoneware pipes grade A and jointing with stiff mixture of cement mortar in proportion of 1:1, tsting of pipes and joints, including cost of materials, labour charges complete as per specifications. Specification No.KBS 12.2.5 / 12.7 (Page No.70, Item No.11.5)							
	for sanitary line	1	50.00			50.00		
						50.00	597.84	29892.00
							Per Rmt	
	CSR of 2016-17							
	Basic Rate		564.00					

Sl. No.	Description	Dimensions				Qty.	Rate	Amount
		No.	L.	B.	D			
	Add A.W. 6%		33.84					
	TOTAL		**597.84**					

7 KSRB 12-5.3 ; Constructing brick masonry circular type manhole 1.22m internal dia at bottom 1.68m deep and 0.56m dia at top with table moulded non-modular bricks of class designation 50 in cement mortar 1:4, inside cement plastered 12mm thick with cement mortar 1:3, finished with a floating cost of neat cement, foundation concrete M10 mix using 40mm and downsize granite metal and making necessary channel in cement concrete M 15 mix with 20mm and downsize granite metal finished with a floating coat of neat cement, with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560mm internal diametre confirming IS:12592, total weight cover and frame to be not less than 182kg, fixed in cement concrete 1:2:4, 20mm and downsize broken granite metal, providing and removing centering, shuttering including cost of materials, labour charges, HOM of mechineries complet as per specifications. (Excavation, footrests and 12mm thick cement plaster on the external surface shall be paid seperately). Specification No.KBS 12.4 (Page No.72, Item No.11.39)

Man holes	9				9.00		
					9.00	27691.44	249223.00
						Per Nos	

CSR of 2016-17	
Basic Rate	26124.00
Add A.W. 6%	1567.44
TOTAL	**27691.44**

8 KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications allow 60% of rate considered under item.Specification No.KBS 2.1 (Page No.6,Item No. 2.11)

for sanitary line	1	210.00	0.75	1.20	189.00		
for sanitary line	1	50.00	0.75	1.20	45.00		
					234.00	80.56	18851.00
						Per Cum	

CSR of 2016-17	
Basic Rate	76.00
Add A.W. 6%	4.56

Sl. No.	Description	Dimensions				Qty.	Rate	Amount
		No.	L.	B.	D			
	TOTAL		80.56					

9 KSRB 4 - 1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180 kgs, with 40 mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 0.57 cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation and plinth,including cost of all materials, labour HOM of machinery curing complete as per specifications. Specification No.KBS 4.1, 4.2 (Page No.12, Item No.4.3)

For bed of SSM drain	1	22.00	1.60	0.15	5.28		
for bed of RCC drain	1	91.00	1.00	0.15	13.65		
	1	70.00	1.00	0.15	10.50		
For bed of Kerb	1	91.00	0.25	0.10	2.28		
	1	91.00	0.25	0.10	2.28		
For CC road	1	64.50	5.70	0.15	55.15		
	1	30.00	5.90	0.15	26.55		
RCC Drain	2	39.00	1.00	0.15	11.70		
					127.38	5159.02	657143.00
						Per Cum	

CSR of 2016-17	
Basic Rate	4867.00
Add A.W. 6%	292.02
TOTAL	**5159.02**

10 Recondstruction of size stone masonry with available stones in CM 1:6 as per direction of the Engineer in charge

60% Qty. of vide item No.3	11.88		
	11.88	3569.02	42400.00
		Per Cum	

SR of 2016-17	
Finished rate	5005.00
Deduct cost of material 105 Nos/cmt x Rs.13/- each	1365.00
Deduct 10% over head charges on B	136.50
Deduct 10% contractor profit on B	136.50

Sl. No.	Description	Dimensions				Qty.	Rate	Amount
		No.	L.	B.	D			
			1638.00					
	Arrived rate 'E' (A - (B + C+D))		3367.00					
	Add A.W. 6%		202.02					
	TOTAL		**3569.02**					
11	KSRB 5.3-3 : Providing and constructing granite / trap/ basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing, complete as per specifications.KBS 5.1.13 (Page No.23, Item No. 5.9)							
	SSM walls of drain at Ambedkar Layout 1st main	2	22.00	0.45	1.00	19.80		
	Deduct available stones Qnty vide item No. 10					11.88		
					Net qnty	**7.92**	5305.30	42018.00
						Per Cum		
	CSR of 2016-17							
	Basic Rate		5005.00					
	Add A.W. 6%		300.30					
	TOTAL		**5305.30**					
12	KSRB 15.1.3 : Providing ruled pointing to course stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (Page No.113, Item No. 15.3)							
	SSM walls of drain	2	22.00		1.00	44.00		
						44.00	103.88	4571.00
						Per Sqm		
	CSR of 2016-17							
	Basic Rate		98.00					
	Add A.W. 6%		5.88					
	TOTAL		**103.88**					
13	KSRB 4 - 1.6 : Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs, with 20 mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation plinth and cills including cost of all materials, labour HOM of machinery curing complete as per specifications. Specification No.KBS 4.1, 4.2 (Page No.12, Item No. 4.6)							

Sl. No.	Description	Dimensions				Qty.	Rate	Amount
		No.	L.	B.	D			
	SSM walls of drain	2	22.00	0.45	0.10	1.98		
	vent portion of SSM drain	1	22.00	0.70	0.075	1.16		
	Kerb side	1	91.00	0.10	0.10	0.91		
		1	91.00	0.10	0.10	0.91		
						4.96	5767.46	28578.00
							Per Cum	

CSR of 2016-17

Basic Rate	5441.00
Add A.W. 6%	326.46
TOTAL	**5767.46**

14 KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M 20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum fine aggregates @ 0.459 cum, with superplastisiser @ 3 lts confirming to IS 9103 - 1999 Reaffirmed - 2008, machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery curing, complete as per specifications.Specification No.KBS 4.1, 4.6 (Page No.13, Item No. 4.11)

for bed of RCC drain	1	91.00	0.90	0.125	10.24		
	1	91.00	0.90	0.125	10.24		
side walls of RCC drain	2	91.00	0.125	0.75	17.06		
	2	70.00	0.125	0.75	13.13		
for bed of RCC drain	2	39.00	0.90	0.125	8.78		
side walls of RCC drain	4	39.00	0.125	0.75	14.63		
					74.06	6371.66	471901.00
						Per Cum	

CSR of 2016-17

Basic Rate	6011.00
Add A.W. 6%	360.66
TOTAL	**6371.66**

Sl. No.	Description	Dimensions				Qty.	Rate	Amount
		No.	L.	B.	D			
15	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for R.C.C. works laid in 15 cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges) Ready mixed Cement concrete M-20 for raft foundation, column footing, main and secondary beams. (Page No.18, Item No. 4.48.1)							
	For CC road	1	64.50	5.70	0.15	55.15		
		1	30.00	5.90	0.15	26.55		
						81.70	6231.74	509118.00
							Per Cum	
	CSR of 2016-17							
	Basic Rate		5879.00					
	Add A.W. 6%		352.74					
	TOTAL		**6231.74**					
16	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift (Page No.177, Item No. 22.7)							
		1	64.50	5.70		367.65		
		1	30.00	5.90		177.00		
						544.65	95.40	51960.00
							Per Cum	
	CSR of 2016-17							
	Basic Rate		90.00					
	Add A.W. 6%		5.40					
	TOTAL		**95.40**					
17	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. for TMT Bars Fe 500 Specification No.KBS 4.6.3 (Page No.17, Item No. 4.46.2)							
	for bed of RCC drain	1	91.00	0.90	0.125	10.24		
		1	90.00	0.90	0.125	10.13		
	side walls of RCC drain	2	91.00	0.125	0.75	17.06		
		2	90.00	0.125	0.75	16.88		

Sl. No.	Description	Dimensions				Qty.	Rate	Amount
		No.	L.	B.	D			
	for bed of RCC drain	2	39.00	0.90	0.125	8.78		
	side walls of RCC drain	4	39.00	0.125	0.75	14.63		
						77.70		
	@ 70kgs/Cmtr		77.70	x 70kgs/Cmtr		5439.00		
					Or	**5.44**	59413.00	323147.00
							Per Tonne	
	CSR of 2016-17							
	Basic Rate		56050.00					
	Add A.W. 6%		3363.00					
	TOTAL		**59413.00**					
18	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No.KBS 4.6.2 (Page No.15, Item No. 4.31)							
		3	91.00	0.75		204.75		
		3	90.00	0.75		202.50		
		6	39.00	0.75		175.50		
						582.75	310.58	180990.00
							Per Sqm	
	Basic Rate		293.00					
	Add A.W. 6%		17.58					
	TOTAL		**310.58**					
19	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete. of size 450 x 200 x 400 mm (Page No.25, Item No. 5.29.1)							
		2	91.00			182.00		
						182.00		
				182.00	/ 0.45	404.44		
					Say	**405.00**	385.84	156265.00
							Per Nos	
	Basic Rate		364.00					
	Add A.W. 6%		21.84					
	TOTAL		**385.84**					
20	KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after throughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. (Page No.122, Item No.15.80)							
	Painting to CC Kerb stones	2	91.00		0.35	63.70		

Sl. No.	Description	Dimensions				Qty.	Rate	Amount
		No.	L.	B.	D			
						63.70	27.56	1756.00
	CSR of 2016-17						Per Sqm	
	Basic Rate		26.00					
	Add A.W. 6%		1.56					
	TOTAL		**27.56**					
21	KSRB 15-19.2 : Providing and applying spary painting in two coats (excluding priming coat) over concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materiasl, labour, complete as per specifications. (Page No.121, Item No.15.81)							
	Painting to CC Kerb stones	2	91.00		0.35	63.70		
						63.70	69.96	4456.00
	Basic Rate		66.00				Per Sqm	
	Add A.W. 6%		3.96					
	TOTAL		**69.96**					
22	Providing and fixing 10 cm thick precast RCC slab using reinforced cement concrete M 20 mix with stone aggregates 20mm and down size including centering, shuttering reinforcement and barbending machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted cost of all materials, labour, curing complete as per specifications							
		2	91.00	0.90		163.80		
		2	85.00	0.90		153.00		
		2	110.00	0.90		198.00		
		2	50.00	0.90		90.00		
		2	42.30	0.90		76.14		
						680.94	1836.00	1250206.00
							Per Sqm	
23	Lead charges for conveying the excavated earth including loading and unloading upto 15 kms as per directions							
	Qty.vide item No.1+2					1143.18		
	Deduct Refilling Qnty of vide item No. 4					234.00		
						909.18	116.00	105465.00
	Basic Rate		116.00				Per Cum	
	Total		116.00					
								4503176.00
24	Add 10% for KRIDL Charges					LS		450318.00

Sl. No.	Description	Dimensions				Qty.	Rate	Amount
		No.	L.	B.	D			
25	Add 1% for Labour Cess Charges					LS		45032.00
26	Miscelleneous & other unforseen charges					LS		1474.00
						GRAND TOTAL Rs.		5000000.00

CERTIFICATE

1 The work spot have been inspected by me and work is found to be necessary.
2 This estimate is prepared as per CSR of 2016-17
3 This work is not split up
4 The provisions were made in this estimate are adequete and essential
5 This works comes under BBMP Limits

Asst.Engineer
Ward No.06
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Asst.Executive Engineer
Byatarayanapura Sub Division
B.B.M.P.

Executive Engineer
Bytarayanapura Division
B.B.M.P.
26/09

ADMINISTRATIVELY SANCTIONED FOR Rs. 50.00 lakhs
Rupees fifty lakhs only
Under sob code 006-17-000148

Registered as EE ( ) 9.....9.....
Subject to conditions contained in
enclosed memo EE ( ) No. /9/....
Dt Estimate A/Sanctioned
J.C(Y) PR/AS/No. 07/18-19
dated 26-9-2018 Rs. 50.00 lakhs.

Joint Commissioner
(Yelahanka Zone)
BBMP. Bengaluru-92

Technical Sanction
Accorded For Rs 50.00 lakhs only
Head of A/C. P-3110
CER NO TS/54/18-19 Dt. 03.10.2018

TA CE (YNK)